

Lab Report : 3

Problem no.- 1: Write a java program to find out the frequency of a substring in a string. Where you have to create a different class to perform the given operation. Use the constructor of that class to take user input (both the string and the substring). Create a method in that class which returns the frequency. Call the method from main class and display result .

Code :

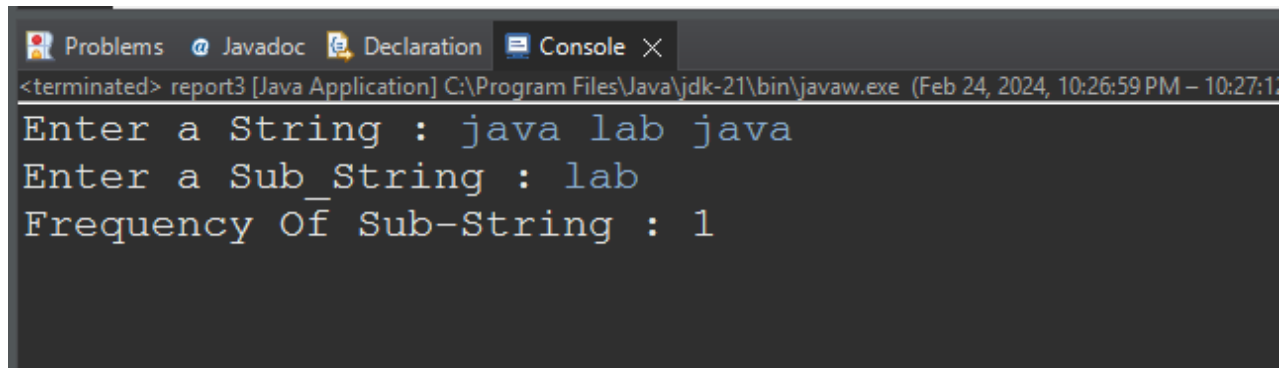
```
import java.util.Scanner;
class frequency {
    Scanner sc = new Scanner(System.in);
    private String string, sub_string;;

    frequency() {
        System.out.print("Enter a String : ");
        string = sc.nextLine();
        System.out.print("Enter a Sub_String : ");
        sub_string = sc.nextLine();
    }
    int find() {
        int temp = 0;
        int j = 0;

        for (int i = 0; i < string.length(); i++) {
            if (j == sub_string.length() - 1) {
                temp++;
                j = 0;
            } else if (string.charAt(i) == sub_string.charAt(j)) {
                j++;
            } else {
                j = 0;
            }
        }
        return temp;
    }
}
```

```
}  
public class report3 {  
    public static void main(String args[]) {  
        frequency obj = new frequency();  
        int n = obj.find();  
        System.out.print("Frequency Of Sub-String : " + n);  
    }  
}
```

Output :



The screenshot shows a Java IDE window with a console tab. The console output is as follows:

```
<terminated> report3 [Java Application] C:\Program Files\Java\jdk-21\bin\javaw.exe (Feb 24, 2024, 10:26:59 PM - 10:27:17)  
Enter a String : java lab java  
Enter a Sub_String : lab  
Frequency Of Sub-String : 1
```